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| **Scientific Method Cheat Sheet**  Ms. Ottolini, PreAP Biology  **Hypothesis:** “If [I do this], then [this will happen].”  *Ex: “If I water the grass, then it will grow.”*  **Independent Variable:** The thing you are changing (i.e. the cause).  *Ex: The water*  **Dependent Variable:** The thing you are measuring (i.e. the effect).  *Ex. The height of the grass*  **Experimental Group:** The group of test subjects that receive the independent variable.  *Ex: The patch of grass that gets watered.*  **Control Group:** The group of test subjects that DO NOT receive the independent variable. The results from this group are compared to the results from the experimental group to make sure that the changes in the dependent variable *(ex: grass height)* are truly a result of the independent variable *(ex: the water).*  *Ex: The patch of grass that does not get watered.*  **Constants:** Things that are kept the same between your experimental group and the control group to ensure that only the independent variable is being tested.  *Ex: sunlight, amount of fertilizer, type of grass* | **Scientific Method Cheat Sheet**  Ms. Ottolini, PreAP Biology  **Hypothesis:** “If [I do this], then [this will happen].”  *Ex: “If I water the grass, then it will grow.”*  **Independent Variable:** The thing you are changing (i.e. the cause).  *Ex: The water*  **Dependent Variable:** The thing you are measuring (i.e. the effect).  *Ex. The height of the grass*  **Experimental Group:** The group of test subjects that receive the independent variable.  *Ex: The patch of grass that gets watered.*  **Control Group:** The group of test subjects that DO NOT receive the independent variable. The results from this group are compared to the results from the experimental group to make sure that the changes in the dependent variable *(ex: grass height)* are truly a result of the independent variable *(ex: the water).*  *Ex: The patch of grass that does not get watered.*  **Constants:** Things that are kept the same between your experimental group and the control group to ensure that only the independent variable is being tested.  *Ex: sunlight, amount of fertilizer, type of grass* |
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